

12W
ATTORNEY DOCKET NO. 21101.0045U2
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	
)	
Ullman <i>et al.</i>)	
)	
Application No. 10/528,183)	Group Art Unit: 1644
)	
Filing Date: May 27, 2005)	Examiner: Unassigned
)	
For: METHODS AND COMPOSITIONS)	Confirmation No. 3496
RELATED TO INHIBITING NUCLEAR)	
ENVELOPE BREAKDOWN)	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.
Customer Number 23859

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying Information Disclosure Statement List is a listing of documents known to Applicants and/or their attorneys. In accordance with 37 C.F.R. § 1.98(a)(2), copies of any cited U.S. patent or U.S. patent application publication documents are not enclosed. Copies of any cited foreign patent document and/or any non-patent publication are enclosed.

This Information Disclosure Statement is believed to be filed in a timely manner pursuant to 37 C.F.R. § 1.97(b)(3), in that a first Office Action on the merits of the present patent application has not yet been mailed to Applicants.

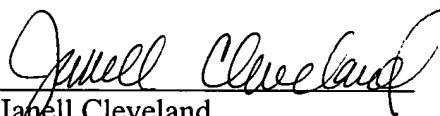
Consideration of the cited documents and making the same of record in the prosecution of the above-referenced application are respectfully requested.

ATTORNEY DOCKET NO. 21101.0045U2
Application No. 10/528,183

No fee is believed due; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.


Janell Cleveland
Registration No. 53,848

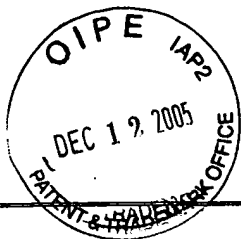
NEEDLE & ROSENBERG, P.C.
Customer Number 23859
(678) 420-9300
(678) 420-9301 (fax)

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence, including any items indicated as attached or included, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.


Janell Cleveland

Dec 9, 2005
Date



INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

Application Number	10/528,183
Filing Date	May 27, 2005
First Named Inventor	ULLMAN, Katharine
Group Art Unit	1644
Examiner Name	Unassigned

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Country Code-Number-Kind Code	Date	Name	Translation Yes/No

NON-PATENT DOCUMENTS

Examiner's Initials	Cite No.	(include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)
	A1	Acharya, et al., (1995). The Formation of Golgi Stacks from Vesiculated Golgi Membranes Requires Two Distinct Fusion Events. Cell 82, 895-904.
	A2	Aitchison, J. D., and Rout, M. P. (2002). A Tense Time for the Nuclear Envelope. Cell 108, 301- 304.
	A3	Beaudouin, et al., (2002). Nuclear Envelope Breakdown Proceeds by Microtubule-Induced Tearing of the Llamina. Cell 108, 83-96.
	A4	Buendia, B., and Courvalin, J. C. (1997). Domain-Specific Disassembly and Reassembly of Nuclear Membranes during Mitosis. Exp Cell Res 230, 133-144.
	A5	Burke, B., and Ellenberg, J. (2002). Remodeling the Walls of the Nucleus. Nat Rev Mol Cell Biol 3, 487-497.
	A6	Collas, I., and Courvalin, J. C. (2000). Sorting nuclear membrane proteins at mitosis. Trends Cell Biol 10, 5-8.
	A7	Cotter, et al., (1998). Nuclear Pore Complex Disassembly and Nuclear Envelope Breakdown during Mitosis May Occur by Both Nuclear Envelope Vesicularisation and Dispersion Throughout the Endoplasmic Reticulum. Scanning 20:3, 250-251.
	A8	Daigle, et al., (2001). Nuclear pore complexes form immobile networks and have a very low turnover in live mammalian cells. J Cell Biol 154, 71-84.
	A9	Dimaano et al., (2001). RNA Association Defines a Functionally Conserved Domain in the Nuclear Pore Protein Nup153. J Biol Chem 276, 45349- 45357.
	A10	Drummond, et al., (1999). Temporal Differences in the Appearance of NEP-B78 and an LBR-like Protein during Xenopus Nuclear Envelope Reassembly Reflect the Ordered Recruitment of Functionally Discrete Vesicle Types. J Cell Biol 144, 225-240.
	A11	Ellenberg, et al., (1997). Nuclear membrane dynamics and reassembly in living cells: targeting of an inner nuclear membrane protein in interphase and mitosis. J Cell Biol 138, 1193- 1206.
	A12	Ewald, et al., (1997). Preassembly of annulate lamellae in egg extracts inhibits nuclear pore complex formation, but not nuclear membrane assembly. Eur J Cell Biol 73, 259-269.
	A13	Fahrenkrog, et al., (2002). Domain-specific antibodies reveal multiple-site topology of Nup153 within the nuclear pore complex. J Struct Biol 140, 254-267.
	A14	Featherstone, et al., (1985). Newly Synthesized G Protein of Vesicular Stomatitis Virus is not Transported to the Golgi Complex in Mitotic Cells. J Cell Biol 101, 2036- 2046.

Examiner Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT LIST (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/528,183
		Filing Date	May 27, 2005
		First Named Inventor	ULLMAN, Katharine
		Group Art Unit	1644
		Examiner Name	Unassigned
	A15	Frangioni, J. V., and Neel, B. G. (1993). Solubilization and Purification of Enzymatically Active Glutathione S-Transferase (pGEX) Fusion Proteins. Anal Biochem 210, 179-187.	
	A16	Gant, T. M., and Wilson, K. L., (1997). ARF is not required for nuclear vesicle fusion or mitotic membrane disassembly in vitro: evidence for a non-ARF GTPase in fusion. Eur J Cell Biol 74, 10-19.	
	A17	Genbank Accession No. AAA74582	
	A18	Genbank Accession No. AF045567	
	A19	Genbank Accession No. AF434196	
	A20	Genbank Accession No. NP_057535	
	A21	Gönczy, P. (2002). Nuclear Envelope: Torn Apart at Mitosis. Curr Biol 12, R242-244.	
	A22	Griffis, et al., (2002). Nup98 Is a Mobile Nucleoporin with Transcription-dependent Dynamics. Mol Biol Cell. 13:1282-1297.	
	A23	Hang, J., and Dasso, M. (2002). Association of the Human SUMO-1 Protease SENP2 with the Nuclear Pore. J Biol Chem 277, 19961-19966.	
	A24	Hetzer, et al. (2001). Distinct AAA-ATPase p97 complexes function in discrete steps of nuclear assembly. Nat Cell Biol 3, 1086-1091.	
	A25	Kahn, et al., (1992). The Amino Terminus of ADP-Ribosylation Factor (ARF) is a Critical Determinant of ARF Activities and is a Potent and Specific Inhibitor of Protein Transport. J Biol Chem 267, 13039-13046.	
	A26	Kondo, et al., (1997). p47 is a cofactor for p97-mediated membrane fusion. Nature 388, 75-78.	
	A27	Kumar et al., (2001). Perturbing Nuclear Transport in Drosophila Eye Imaginal Discs Causes Specific Cell Adhesion and Axon Guidance Defects. Dev Biol; 240(2):315-25.	
	A28	Lenart, P., and Ellenberg, J. (2003). Nuclear envelope dynamics in oocytes: from germinal vesicle breakdown to mitosis. Curr Opin Cell Biol 15, 88-95.	
	A29	Lenart, et al., (2003). Nuclear envelope breakdown in starfish oocytes proceeds by partial NPC disassembly followed by a rapidly spreading fenestration of nuclear membranes. J Cell Biol 160, 1055-1068.	
	A30	Liu, et al., (2003). The COPI Complex Functions in Nuclear Envelope Breakdown and is Recruited by the Nucleoporin Nup153. Dev Cell; 5(3):487-98.	
	A31	Meyer, et al., (2002). Direct binding of ubiquitin conjugates by the mammalian p97 adaptor complexes, p47 and Ufd1-Npl4. Embo J 21, 5645-5652.	
	A32	Moroianu et al., (1997). RanGTP-mediated nuclear export of karyopherin alpha involves its interaction with the nucleoporin Nup153. Proc Natl Acad Sci USA 94, 9699- 9704.	
	A33	Murray, et al., (1989). The role of cyclin synthesis and degradation in the control of maturation promoting factor activity. Nature 339, 280-286.	
	A34	Nakielnny, et al., (1999). Nup153 is an M9-containing mobile nucleoporin with a novel Ran-binding domain. Embo J 18, 1982-1995.	
	A35	Newport, J., and Spann, T. (1987). Disassembly of the Nucleus in Mitotic Extracts: Membrane Vesicularization, Lamin Disassembly, and Chromosome Condensation are Independent Processes. Cell 48, 219-230.	
	A36	Nickel, et al., (2002). Vesicular transport: the core machinery of COPI recruitment and budding. J Cell Sci 115, 3235-3240.	

Examiner Signature:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT LIST (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/528,183
		Filing Date	May 27, 2005
		First Named Inventor	ULLMAN, Katharine
		Group Art Unit	1644
		Examiner Name	Unassigned
A37		Pante, et al., (1994). Interactions and Three-Dimensional Localization of a Group of Nuclear Pore Complex Proteins. J Cell Biol 126, 603-617.	
A38		Powers, M. A., Evans, E. K., Yang, J., and Kornbluth, S. (2001). Preparation and use of interphase <i>Xenopus</i> egg extracts. In Current Protocols in Cell Biology (New York, John Wiley & Sons), pp. 11.10.1-11.11.24.	
A39		Powers, et al., (1995). Reconstituted Nuclei Depleted of a Vertebrate GLFG Nuclear Pore Protein, p97, Import but are Defective in Nuclear Growth and Replication. J Cell Biol 128, 721-736.	
A40		Rabouille, et al., (1995). An NSF-like ATPase, p97, and NSF Mediate Cisternal Regrowth from Mitotic Golgi Fragments. Cell 82, 905-914.	
A41		Rossanese, O. W., and Glick, B. S. (2001). Deconstructing Golgi inheritance. Traffic 2, 589-596.	
A42		Ryan, K. J., and Wentte, S. R. (2002). Isolation and characterization of new <i>Saccharomyces cerevisiae</i> mutants perturbed in nuclear pore complex assembly. BMC Genet 3, 17.	
A43		Salina, et al., (2002). Cytoplasmic Dynein as a Facilitator of Nuclear Envelope Breakdown. Cell 108, 97-107.	
A44		Sasagawa, et al., (1999). In vitro nuclear assembly with affinity-purified nuclear envelope precursor vesicle fractions, PV1 and PV2. Eur J Cell Biol 78, 593-600.	
A45		Shah, S., and Forbes, D. J. (1998). Separate nuclear import pathways converge on the nucleoporin Nup153 and can be dissected with dominant-negative inhibitors. Curr Biol 8, 1376- 1386.	
A46		Shah, S., Tugendreich, S., and Forbes, D. (1998). Major Binding Sites for the Nuclear Import Receptor are the Internal Nucleoporin Nup153 and the Adjacent nuclear Filament Protein Tpr. J Cell Biol 141, 31-49.	
A47		Shorter, J. and Warren, G. (2002). Golgi Architecture and Inheritance. Annu Rev Cell Dev Biol.	
A48		Smythe, et al., (2000). Incorporation of the nuclear pore basket protein nup153 into nuclear pore structures is dependent upon lamina assembly: evidence from cell-free extracts of <i>Xenopus</i> eggs. Embo J 19, 3918-3931.	
A49		Stade et al., (2002). A Lack of SUMO Conjugation Affects cNLS-dependent Nuclear Protein Import in Yeast. J Biol Chem.; 277(51):49554-61.	
A50		Sukegawa, J., and Blobel, G. (1993). A Nuclear Pore Complex Protein that Contains Zinc Finger Motifs, Binds DNA, and Faces the Nucleoplasm. Cell 72, 29-38.	
A51		Suntharalingam, M. and Wentte, S. R. (2003). Peering through the pore: Nuclear Pore Complex Structure, Assembly, and Function. Dev. Cell 4: 775-89.	
A52		Sutterlin, et al., (2002). Fragmentation and Dispersal of the Pericentriolar Golgi Complex is Required for Entry into Mitosis in Mammalian Cells. Cell 109:359-69.	
A53		Terasaki, et al., (2001). A New Model for Nuclear Envelope Breakdown. Mol Biol Cell 12, 503- 510.	
A54		Ullman, et al., (1999). The Nucleoporin Nup153 Plays a Critical Role in Multiple Types of Nuclear Export. Mol Biol Cell 10, 649-664.	
A55		Vasu, S. K., and Forbes, D. J. (2001). Nuclear Pores and Nuclear Assembly. Curr Opin Cell Biol 13, 363-375.	
A56		Vasu, et al., (2001). Novel vertebrate nucleoporins Nup133 and Nup160 play a role in mRNA export. J Cell Biol 155, 339- 353.	
A57		Vigers, G. P., and Lohka, M. J. (1991). A Distinct Vesicle Population Targets Membranes and Pore Complexes to the Nuclear Envelope in <i>Xenopus</i> Eggs. J Cell Biol 112, 545-556.	

Examiner Signature:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT LIST (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/528,183
		Filing Date	May 27, 2005
		First Named Inventor	ULLMAN, Katharine
		Group Art Unit	1644
		Examiner Name	Unassigned
	A58	Walther, et al., (2001). The nucleoporin Nup153 is required for nuclear pore basket formation, nuclear pore complex anchoring and import of a subset of nuclear proteins. Embo J 20, 5703-5714.	
	A59	Wang, et al., (2003). Structure and Ubiquitin Interactions of the Conserved Zinc Finger Domain of Npl4. J Biol Chem. , 20225-20234.	
	A60	Yang, L., Guan, T., and Gerace, L. (1997). Integral Membrane Proteins of the Nuclear Envelope are Dispersed throughout the Endoplasmic Reticulum during Mitosis. J Cell Biol 137, 1199-1210.	
	A61	Zaal, et al., (1999). Golgi Membranes Are Absorbed into and Reemerge from the ER during Mitosis. Cell 99, 589-601.	
	A62	Zhang, H., Saitoh, H., and Matunis, M. J. (2002). Enzymes of the SUMO Modification Pathway Localize to Filaments of the Nuclear Pore Ccomplex. Mol Cell Biol 22, 6498-6508.	

Examiner Signature:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	